National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24th December 2022

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
   Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
   Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
   Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 23.12.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23- दिसंबर -2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 23rd December 2022, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day Date of Reporting: 24-Dec-2022

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	53817	57870	41940	20141	2596	176364
Peak Shortage (MW)	275	0	0	589	0	864
Energy Met (MU)	1144	1444	1008	404	47	4047
Hydro Gen (MU)	125	40	101	34	11	311
Wind Gen (MU)	11	54	19	-	-	84
Solar Gen (MU)*	101.80	54.13	125.29	4.99	0.62	287
Energy Shortage (MU)	5.66	0.02	0.00	4.44	0.00	10.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57323	70480	52722	20643	2702	200443
Time Of Maximum Demand Met (From NLDC SCADA)	11:14	10:54	10:54	18:29	17:42	10:54

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.137	0.05	2.07	11.65	13.77	54.21	32.02

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	7622	0	145.6	34.4	-1.6	109	0.00
	Haryana	7601	0	145.4	73.8	-2.3	92	0.00
	Rajasthan	15740	0	302.2	112.0	-0.2	176	3.74
	Delhi	4560	0	75.9	68.7	-0.6	286	0.00
	UP	17981	0	332.4	89.6	-1.3	539	0.00
	Uttarakhand	2082	230	41.6	28.2	0.8	243	1.28
	HP	1981	0	35.9	27.9	0.5	159	0.00
	J&K(UT) & Ladakh(UT)	2788	50	60.6	57.1	-0.6	126	0.64
	Chandigarh	266	0	4.2	4.1	0.1	50	0.00
WR	Chhattisgarh	4704	0	103.1	52.2	-0.2	164	0.00
	Gujarat	19447	0	394.8	226.3	-3.8	653	0.00
	MP	16814	0	326.5	198.1	-4.7	510	0.00
	Maharashtra	26866	0	551.1	181.3	1.1	519	0.00
	Goa	660	0	12.2	12.5	-0.9	41	0.02
	DNHDDPDCL	1197	0	27.5	27.8	-0.3	32	0.00
	AMNSIL	748	0	16.3	10.3	0.0	292	0.00
	BALCO	512	0	12.2	12.2	0.0	0	0.00
SR	Andhra Pradesh	9497	0	182.6	81.5	-1.7	474	0.00
	Telangana	12765	0	217.3	86.8	-1.9	511	0.00
	Karnataka	13149	0	222.6	88.3	0.5	646	0.00
	Kerala	3849	0	75.8	53.0	-0.2	276	0.00
	Tamil Nadu	15221	0	301.7	171.3	-1.7	597	0.00
	Puducherry	375	0	8.4	8.1	-0.4	38	0.00
ER	Bihar	4965	0	86.1	74.4	0.0	180	0.54
	DVC	3451	0	71.2	-41.9	-1.0	243	0.00
	Jharkhand	1569	98	28.5	21.1	-1.2	114	3.90
	Odisha	4762	0	91.7	30.3	-2.3	384	0.00
	West Bengal	6545	0	124.5	6.5	-1.9	311	0.00
	Sikkim	123	0	1.9	1.9	0.0	14	0.00
NER	Arunachal Pradesh	144	0	2.4	2.4	-0.1	29	0.00
	Assam	1487	0	25.8	20.0	-1.1	72	0.00
	Manipur	227	0	3.4	3.4	0.0	21	0.00
	Meghalaya	369	0	7.0	6.0	-0.1	56	0.00
	Mizoram	136	0	2.0	1.9	-0.3	5	0.00
	Nagaland	148	0	2.4	2.4	-0.1	10	0.00
	Tripura	224	0	3.8	2.2	-0.3	27	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.4	-5.6	-18.8
Day Peak (MW)	76.0	-163.6	-968.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.0	-109.7	129.2	-180.0	-2.6	0.0
Actual(MU)	161.8	-108.9	137.6	-190.9	-4.1	-4.4
O/D/U/D(MU)	-1.2	0.8	8.3	-10.9	-1.5	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6257	11601	7728	1860	685	28131	47
State Sector	6650	14352	8383	1902	134	31420	53
Total	12907	25953	16111	3762	818	59551	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	752	1466	548	624	16	3406	78
Lignite	31	12	24	0	0	67	2
Hydro	126	41	102	33	11	312	7
Nuclear	21	37	70	0	0	128	3
Gas, Naptha & Diesel	15	5	6	0	30	56	1
RES (Wind, Solar, Biomass & Others)	136	110	171	5	1	422	10
Total	1080	1671	922	662	57	4391	100

Share of RES in total generation (%)	12.57	6.57	18.58	0.36	1.09	9.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.14	11.24	37.27	5.29	19.91	19.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.051

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 24-Dec-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.5	-8.5
3	765 kV	GAYA-VARANASI	2	0	803	0.0	12.5	-12.5
4	765 kV	SASARAM-FATEHPUR	1	0	459	0.0	8.4	-8.4
5	765 kV	GAYA-BALIA	1	0	626	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	223	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	194	0.0	4.1	-4.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	870	0.0	13.6	-13.6
9	400 kV	PATNA-BALIA	2	0	572	0.0	13.3	-13.3
10	400 kV	NAUBATPUR-BALIA	2	0	688	0.0	14.1	-14.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	432	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	661	0.0	12.3	-12.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	334	0.0	6.5	-6.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	114	0.0	1.3	-1.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	26	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	110.9	-110.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	706	545	4.2	0.0	4.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	509	966	0.0	4.2	-4.2
3	765 kV	JHARSUGUDA-DURG	2	0	649	0.0	11.6	-11.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	562	0.0	8.7	-8.7
5	400 kV	RANCHI-SIPAT	2	18	315	0.0	3.2	-3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	156	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	74	99	0.0	0.5	-0.5
					ER-WR	4.2	30.2	-26.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	93	549	0.0	3.6	-3.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2475	0.0	46.9	-46.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3359	0.0	60.6	-60.6
4	400 kV	TALCHER-I/C	2	0	1175	0.0	14.1	-14.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	111.1	-111.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	195	0	2.8	0.0	2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	609	0	11.0	0.0	11.0
3	220 kV	ALIPURDUAR-SALAKATI	2	57	0	1.0	0.0	1.0
					ER-NER	14.7	0.0	14.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1528	0.0	36.2	-36.2
2	HVDC	VINDHYACHAL B/B	-	245	1	4.4	0.0	4.4
3	HVDC	MUNDRA-MOHINDERGARH	2	976	0	23.3	0.0	23.3
4	765 kV	GWALIOR-AGRA	2	94	1135	0.1	15.2	-15.1
5	765 kV	GWALIOR-PHAGI	2	0	2034	0.0	32.9	-32.9
6	765 kV	JABALPUR-ORAI	2	0	872	0.0	25.0	-25.0
7	765 kV	GWALIOR-ORAI	1	1070	0	9.4	0.0	9.4
8	765 kV	SATNA-ORAI	1	0	951	0.0	17.0	-17.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1709	0	20.8	0.0	20.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2124	0.0	31.7	-31.7
11	400 kV	ZERDA-KANKROLI	1	273	3	2.9	0.0	2.9
12	400 kV	ZERDA -BHINMAL	1	457	89	3.0	0.0	3.0
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	237	426	0.8	3.1	-2.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	145	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	110	0	1.9	0.0	1.9
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	89.4	162.6	-73.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	964	4005	0.0	16.9	-16.9
3	765 kV	SOLAPUR-RAICHUR	2	275	2127	0.1	21.2	-21.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3514	0.0	51.7	-51.7
5	400 kV	KOLHAPUR-KUDGI	2	1279	0	18.8	0.0	18.8
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	128	2.2	0.0	2.2
					WR-SR	28.3	89.9	-61.6

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	0	0	0	-0.63
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	199	0	161	3.86
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.17
	NER	132kV GELEPHU-SALAKATI	-21	-7	-15	-0.37
	NER	132kV MOTANGA-RANGIA	-36	0	-11	-0.27
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.31
	ER	NEPAL IMPORT (FROM BIHAR)	-94	0	-36	-0.86
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	0	0	0	-3.44
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-886	-622	-712	-17.10
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	82	0	-72	-1.72